



MESSENGER 120 SCHEMATIC DIAGRAM
 (FOR UNITS WITH "F" MODEL DESIGNATOR
 ON SERIAL NUMBER STICKER)

- NOTES:
1. ALL RESISTOR VALUES IN OHMS, ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 2. VOLTAGE MEASUREMENTS - VTVM AND 13.8V POWER SOURCE. RECEIVER - NO SQUELCH (CONTROL FULL LEFT), NO SIGNAL. TRANSMITTER - 50 OHM LOAD CONNECTED TO J2. KEYED. NO MODULATION.
 3. * NOT IN PEC.
 4. VALUE CHOSEN TO ADJUST IF GAIN.
 5. PUSH-BUTTON SWITCHES, SIA, B, C, ARE SHOWN IN THE "OUT" POSITION. SWITCHES SID/H ARE SHOWN IN THE "IN" POSITION. THIS IS NORMAL "OPERATE" CONDITION.
 6. C105 AND R107 VALUES CHOSEN FOR TONE FREQUENCY DESIRED.
 7. O DENOTES VOLTAGES WITH SIA, B OUT FOR "OPERATE" CONDITION. NO SIGNAL.
 8. C DENOTES VOLTAGES WITH SIA IN FOR "CALL" CONDITION. TRANSMITTING TONE.
 9. S DENOTES VOLTAGES WITH SIB IN FOR "STANDBY" CONDITION WITH CALL LIGHT OFF. NO SIGNAL.
 10. L DENOTES VOLTAGES WITH SIB IN FOR "STANDBY" CONDITION AND CALL LIGHT LATCHED ON. NO SIGNAL.

